Suggested Format for Residue Chemistry Study Reports

Crop Field Trial

OPPTS 860.1500

The purpose of this document is to suggest the format for final reports (right column) and to provide instructions for creation of Adobe PDF electronic submission documents (left column). The format is modeled after the NAFTA Data Evaluation Record template that will be used by OPP's and PMRA's scientists when this type of study is reviewed. The format is in outline form. The study report will include text and standard tables (detailed below).

Regarding PDF, both 'bookmarks' and 'links' are referenced. Bookmarks and links are similar in function in that both provide the reader with a way to move efficiently through a document as well as across documents. Bookmarks are a type of link that appear in the navigation pane on the left side of the PDF Reader user screen. Links appear within the body of a document as blue text. They permit the reader to jump to other locations with related information in the same document or other electronic documents.

Residue Chemistry Study Reports – CROP FIELD TRIAL	
Instructions to create PDF	**Document Format**
Create Bookmarks for each item in document format column.	• Study Title Page. • Statement of Data Confidentiality, *No confidentiality claims can be made for electronically submitted studies at this time.* • GLP Statement. • QA Statement. • Table of Contents
Create links in summary to related text and tables in body of study report or appendices.	• Executive Summary. - Summary of Background Information & Experimental Design. - Summary of Results.
Create links to related tables.	• Background Information and Experimental Design. - Background Information – See Tables 1 and 2. - Experimental Design – See Tables 3 - 6. • Results and Discussion – See Tables 7 -9. • Appendix 1 – Detailed Site Information – See Tables 10 - 12

TABLE FORMATS

Tables should be imported into the PDF document from their native formats. See OPP's detailed technical specifications for creating PDF for details.

Table 1 – Test Compound Nomenclature.

Compound	Chemical Structure
Common Name.	
Company experimental name.	
IUPAC name.	
CAS name.	
CAS #	
End-use product/EP.	

Table 2 – Physicochemical Properties.

Parameter	Value	Reference
Melting point/range		
pH		
Density		
Water solubility (__°C)		
Solvent solubility (mg/L at __°C)		
Vapor pressure at __°C		
Dissociation constant (pK_a)		
Octanol/water partition coefficient Log (K_{ow})		
UV/visible absorption spectrum		

Table 3 - Soil Characterization.

Study location (city, state)	Year	Soil Characteristics			
		Type	% OM	pH	CEC

Table 4 - Study Use Pattern.

Location (City, state)	Year	End-use product	Application						Tank mix adjuvants	Harvest procedures[1]
			Timing	Rate, lb a.i./A (kg a.i./ha)	Retreatment interval (days)	Treat. No.	Method	Total Rate lb a.i./A (kg a.i./ha)		

[1]Only applicable for cotton commodities.

Table 5 – Trial Numbers and Geographical Locations.

NAFTA Growing Region	Crop 1				Crop 2				Crop n			
	Canada		US		Canada		US		Canada		US	
	Sub	Req	Sub	Req	Sub	Req	Sub	Req	Sub	Req	Sub	Req
1												
1A												
2												
⋮												
21												
Total												

Sub = Submitted, Req = Requested

Table 6 – Summary of Concurrent Recoveries of [*chemical*] from [*matrix*].

Matrix	Analyte	Spike level (mg/kg)	Sample size (n)	Recoveries (%)	Mean ± std. dev.

Table 7 – Summary of Storage Conditions.

Matrix (RAC or Extract)	Storage temp. (°C)	Actual study duration (days or months)	Limit of demonstrated storage stability (days or months)

Table 8 – Residue Data from Crop Field Trials with [*chemical*].

Location (City, State)	Year	Region	Crop/Variety	Commodity	Total Rate lb a.i./A (kg a.i./ha)	PHI (days)	Residues 1 (ppm)	Residues 2 (ppm)	Residues 3 (ppm)

Table 9 – Summary of Residue Data from Crop Field Trials with [*chemical*].

Commodity	Total Application Rate lb a.i./A (kg a.i./ha)	PHI (days)	Residue Levels (ppm)					
			n	Min	Max	HAFT*	Mean	Std. Dev.

* HAFT = Highest Average Field Trial

Table 10 – Maintenance Chemical Information.

Study site	Pesticide or fertilizer applied	Rate	Date

Table 11 – Temperature Data.

Study site	Study period	Actual average minimum (C°)	Historic average minimum (C°)	Actual average maximum (C°)	Historic average maximum (C°)

Table 12 – Rainfall Data.

Study site	Study period	Actual rainfall average (cm)	Historic rainfall average (cm)